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MW550P Active Preselector/Tuner

Owner's Manual



SPECIFICATIONS**Tuner**

Tuner Range 500Khz to 2800Khz
Gain (tuner+ amp) 3db to 12db
Vernier tuning 6:1
Bandwidth (3db) 3Khz to 6Khz
 Adjustable with input coupling control and
 narrow/wide switching
Long wire/Beverages/Dipoles

Preamplifier

High level Dual Jfet balanced amplifier
Amp Gain 10-12 db
Bandwidth 150Khz to 30Mhz

Attenuator

Switch-able attenuator 15db

Bypass

Complete unit bypass

Size 8.25"W x 4.24"H x 9"D

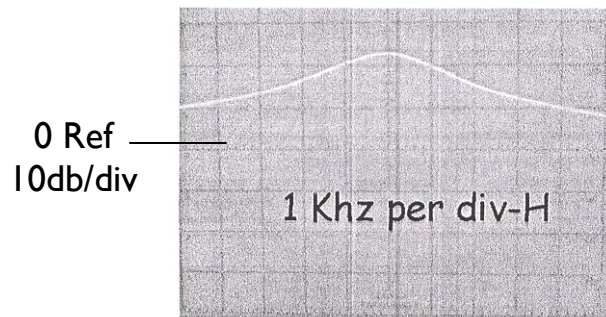
Weight 6 lbs

Notes:

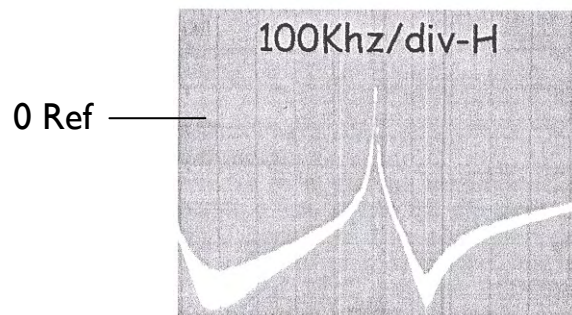
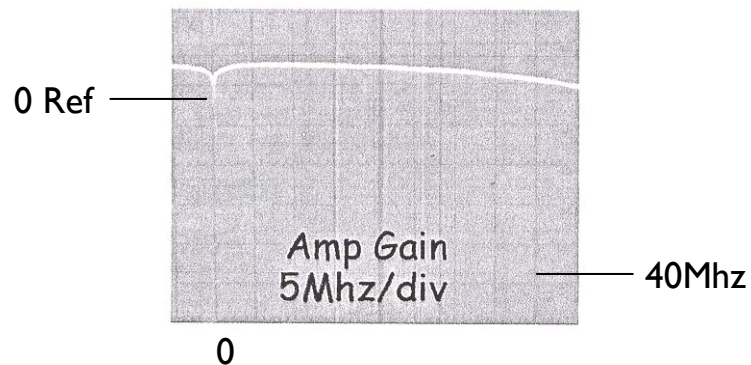


The MW550P is an active pre-selector and antenna matching unit for AM broadcast and 160m reception. The MW550P will match any antenna (eg. random wire, beverage etc.) to 50 Ohms across the broadcast band. The selectivity can be varied by adjusting the antenna coupling and a 4 kHz bandwidth is achievable. As on all Palstar tuners the front panel and top cover are powder-coated.

The MW550P tuner/amplifier combination for listening to the MW band & 160m with reduced effects from adjacent signals and interference. Designed for the Palstar R30 but can be used with any other receiver.



3db Bandwidth centered @ 800Khz (nar)



Tuner response tuned to 1000Khz

Rear Panel:

Ground: Must always use a good ground for all operational modes.

Input: Can use either hi-Z (nylon terminal) long wire or the low-Z coax connection...50 Ω coax. The input has a neon bulb across the input for high level static discharge protection that would otherwise affect the tuner.

Bandwidth: This switches in a resistor that slightly de-Q's the network thereby increasing the bandwidth.

Operation: Make connections as above; tune radio for the desired frequency; switch tuner into MW & Preamp mode; tune pre-selector slowly (see chart of settings) towards frequency of radio (you will notice a definite peak in the signal as you tune on the signal); rotate input tune control for maximum peak as well; switch the rear mounted Nar/Wide switch for best audio bandwidth desired.

Preamp only: In this position the tuner switches in a 12db low noise amplifier which is useable to 30Mhz.

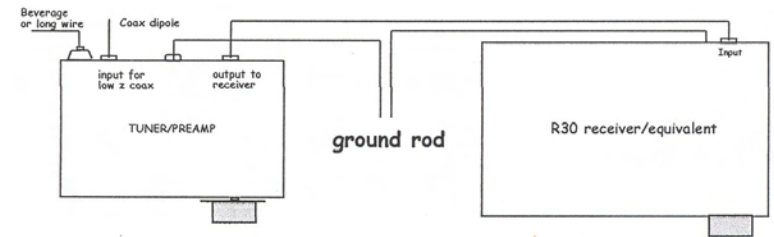
Mode Switch Switches between:

Bypass: Connects in & out no amplification & tuning network

Preamp: Inserts low noise 12 db gain amplifier up to 30Mhz MW & preamp: connects the amplifier and hi-Q tuning network for a gain of approximately 2-3db at 525Khz and 12db gain at 2800Khz.

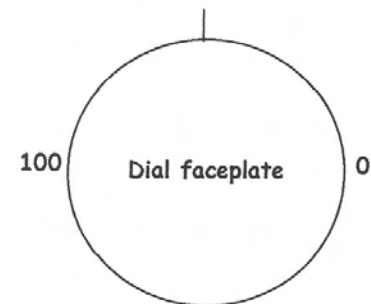
Input Tune: This is a 400pf variable capacitor in series that adjusts and affects the coupling to the network for different antennas. In some cases this may change the bandwidth and the gain. Tune this control for maximum indication on the signal meter.

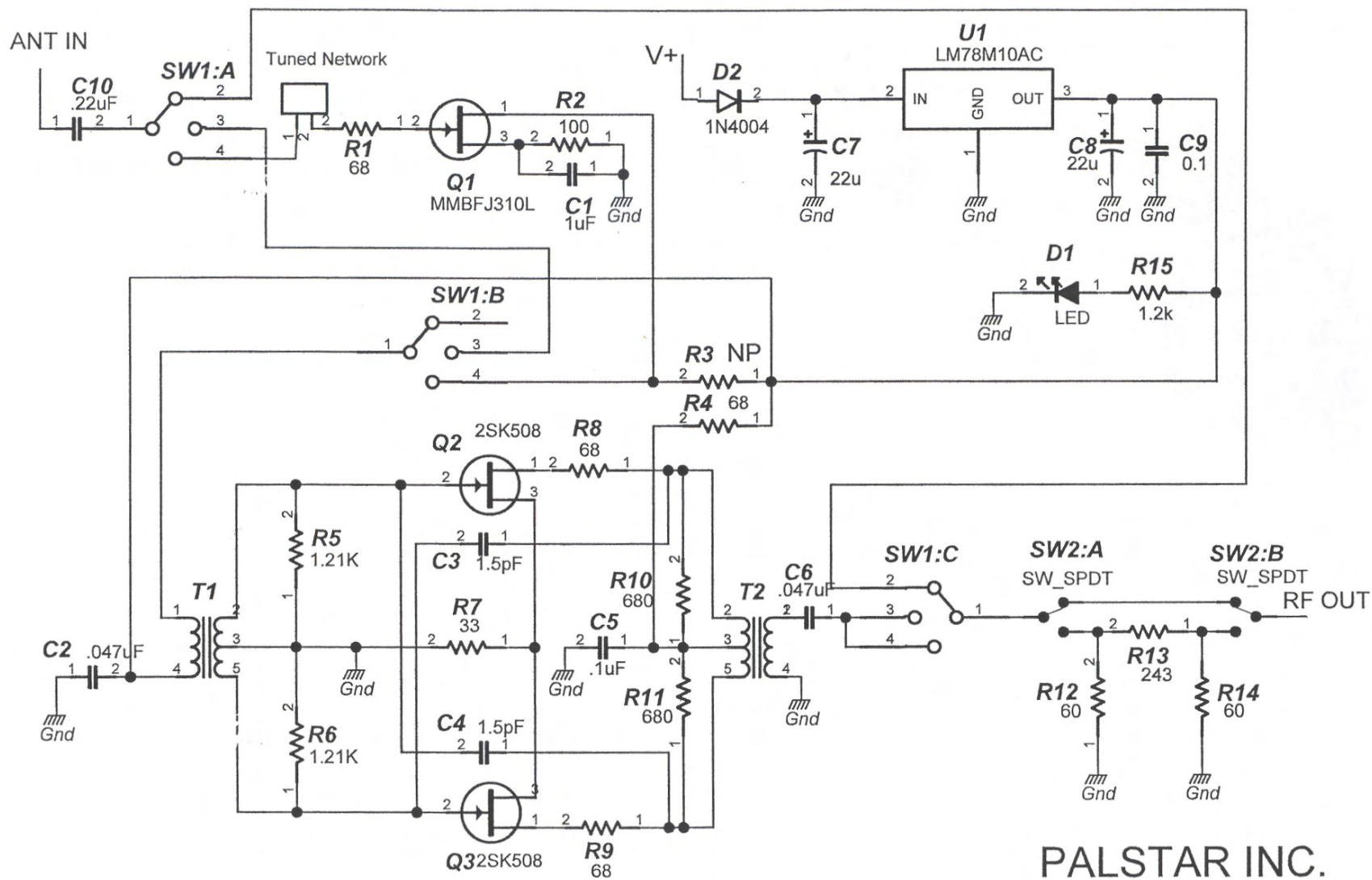
Attenuator: Switches in 15db of attenuation at the OUTPUT of the tuner in the event a strong signal received will overload a receiver other than the R30 Palstar.

Operating Instructions:**Controls:**

Vernier dial tunes in a 6:1 ratio (6 times for the knob 0 on the dial represents the highest frequency approx. 28000Khz) 100 on the dial represents 510Khz. Other readings are as follows:

Dial	Freq (Khz)
8	2000
10	1800
12	1600
13	1500
15	1300
19	1200
25	1000
37	800
63	600
77	525





PALSTAR INC.
 MW550P Schematic
 DATE: March 3, 2004